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BioLite NET

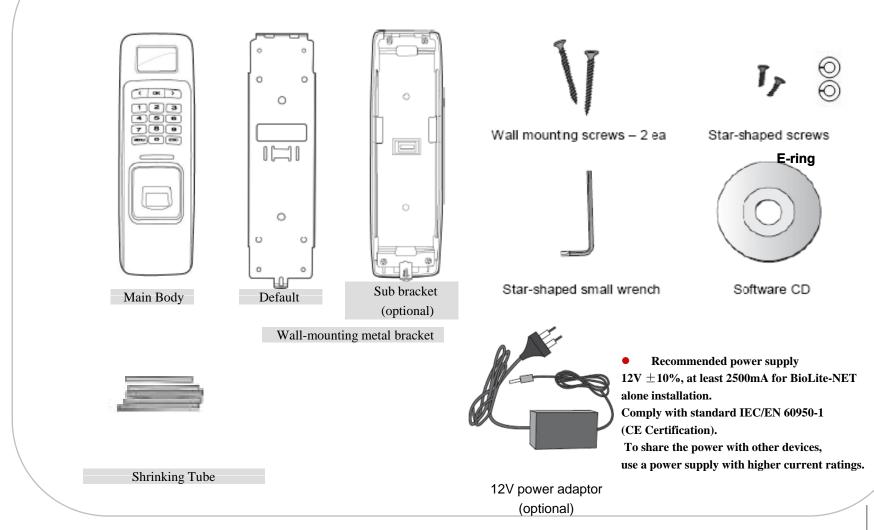
Innovative Fingerprint Terminal

User guide(ver 1.0)



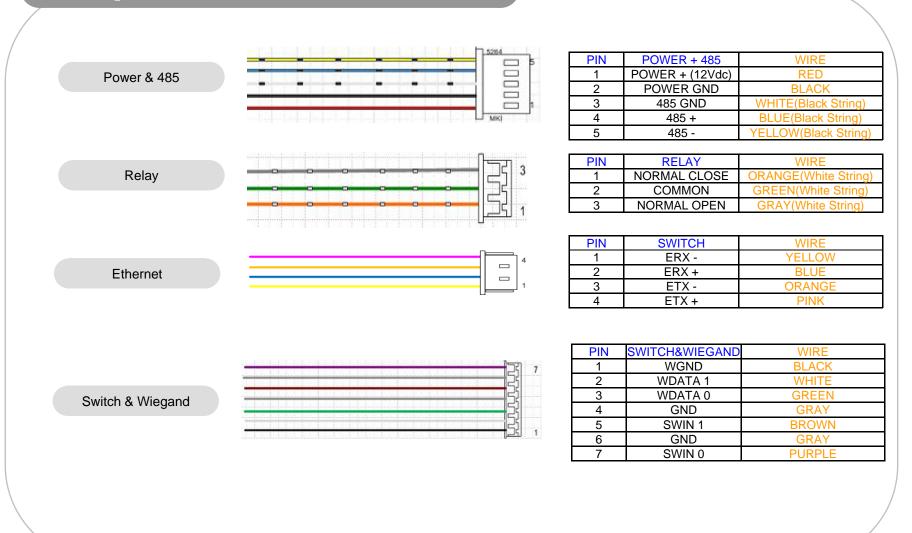
Product Contents

Basic Contents

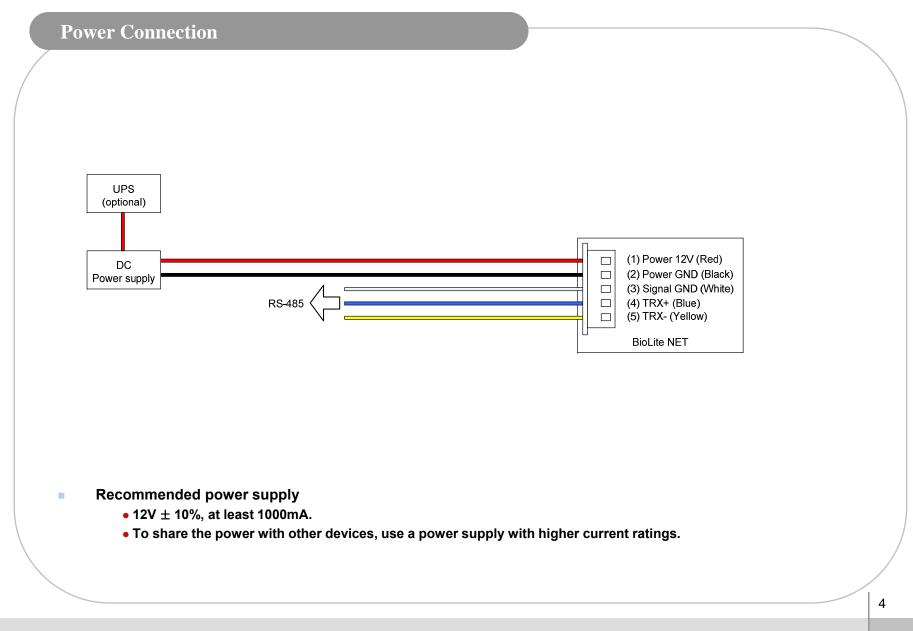




Cable spec.

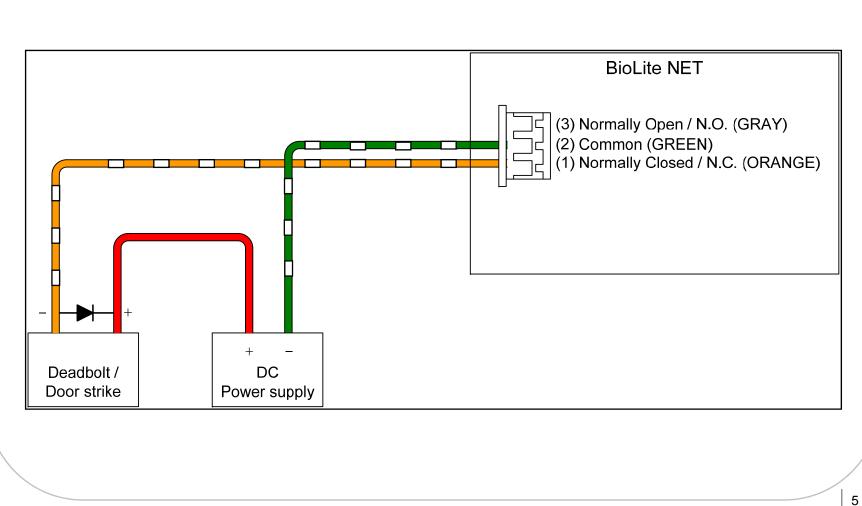






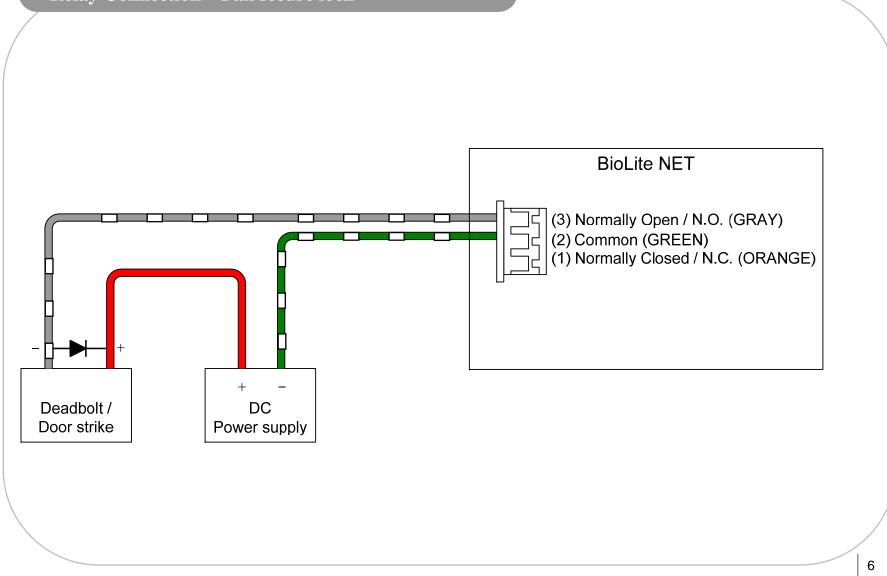


Relay Connection – Fail safe lock

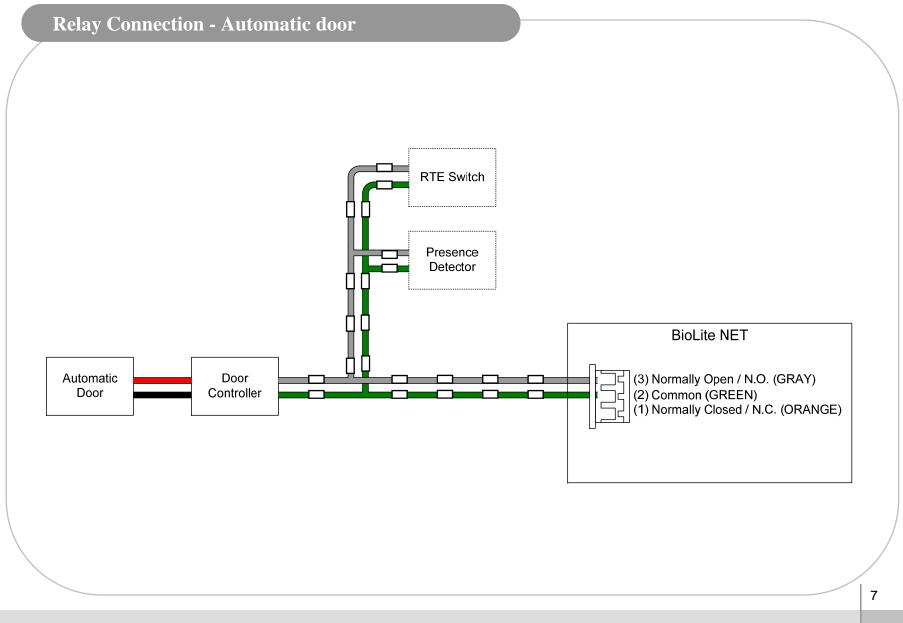




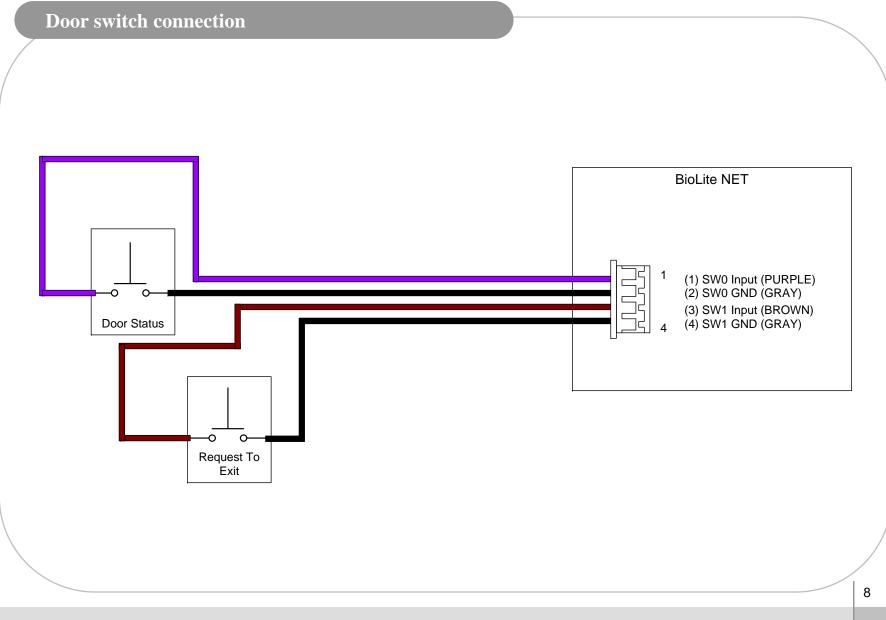
Relay Connection – Fail secure lock



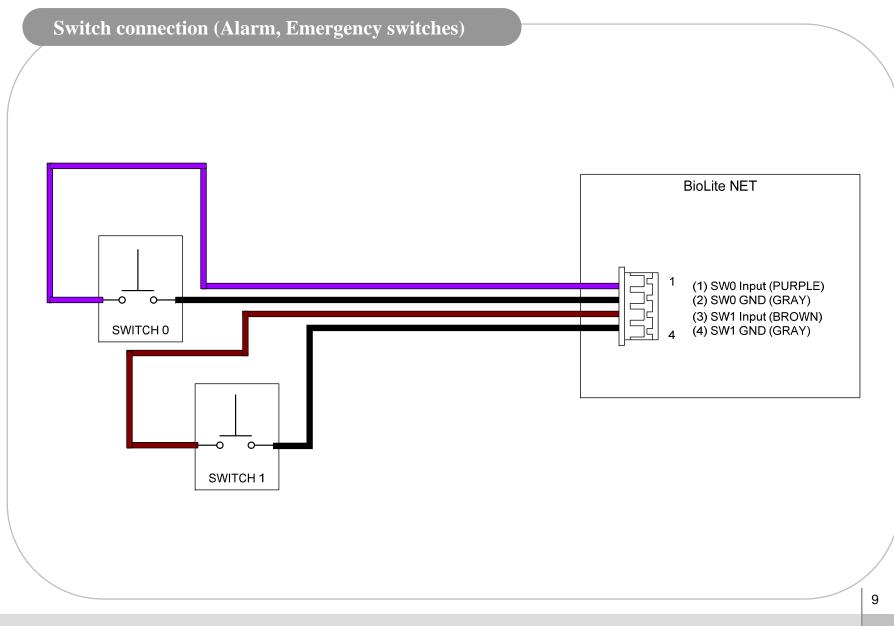








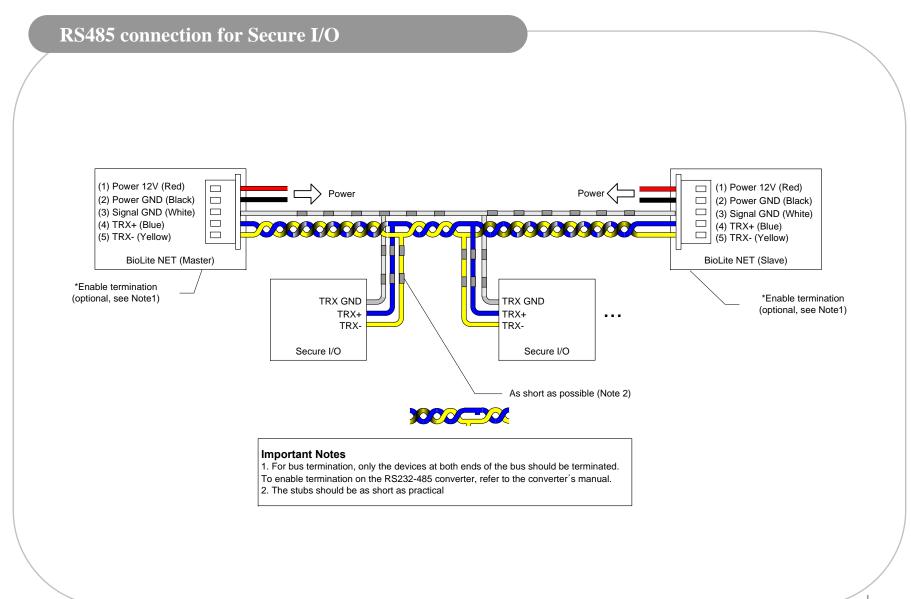






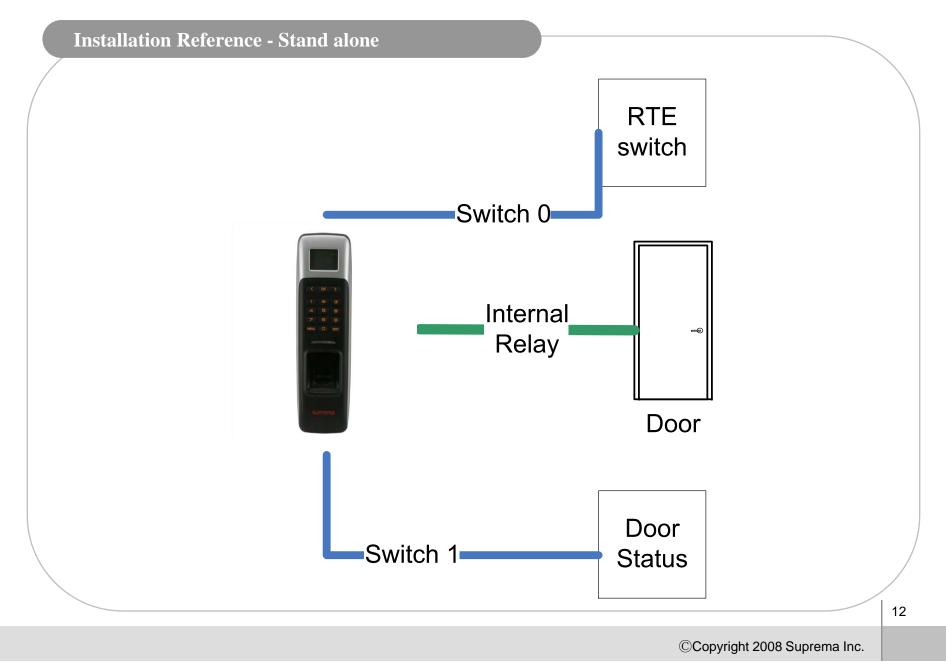
RS485 connection for host communication (1) Power 12V (Red) Power (2) Power GND (Black) RS-232 (3) Signal GND (White) GND TRX+ (4) TRX+ (Blue) TRX-(5) TRX- (Yellow) BioLite NET PC (1) Power 12V (Red) RS232-485 Power < Enable termination (Note1) (2) Power GND (Black) converter (3) Signal GND (White) (4) TRX+ (Blue) Enable termination (Note 1) (5) TRX- (Yellow) As short as possible BioLite NET Disable termination (Note 1) Important Notes 1. Only the devices at the both ends of the bus should be terminated. To enable termination on the RS232-485 converter, refer to the converter's manual. 2. Adjust the communication speed as needed. The signal quality vary depending on wiring conditions, and it may be necessary to lower the baudrates. 3. The GND signal may be omitted *if and only if* the GND potential difference is less than ±5V.



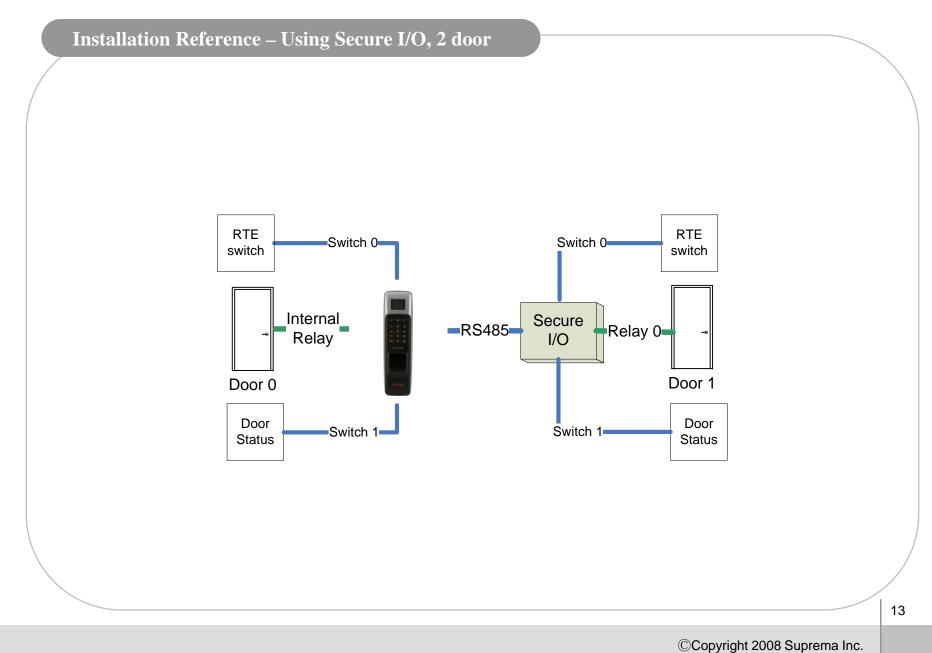


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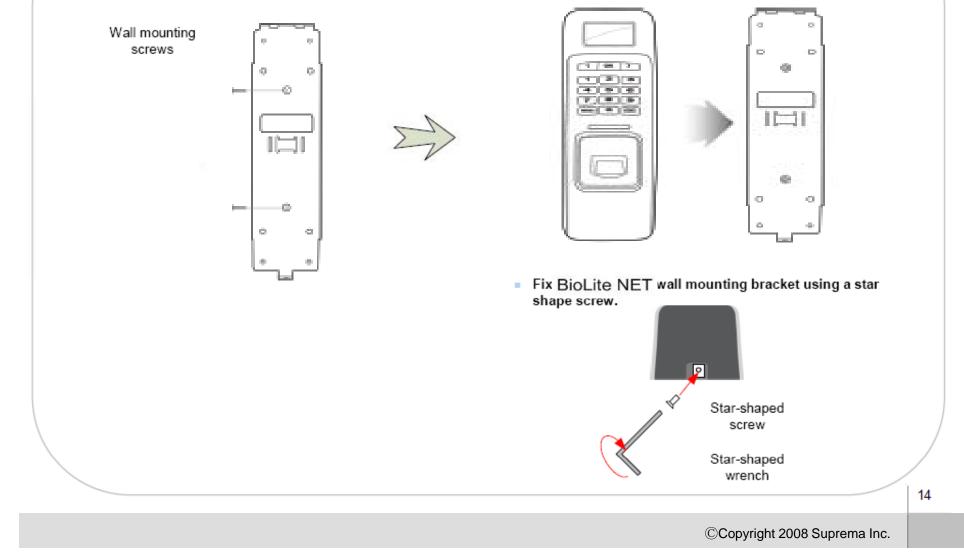






Installation of Wall-mount Bracket

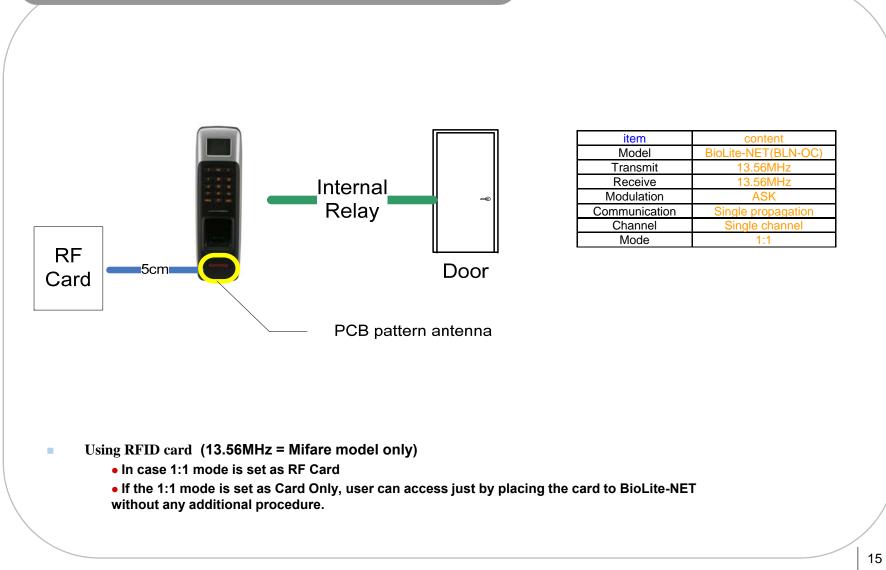
 Fix wall mount bracket on a wall using wall mounting screws



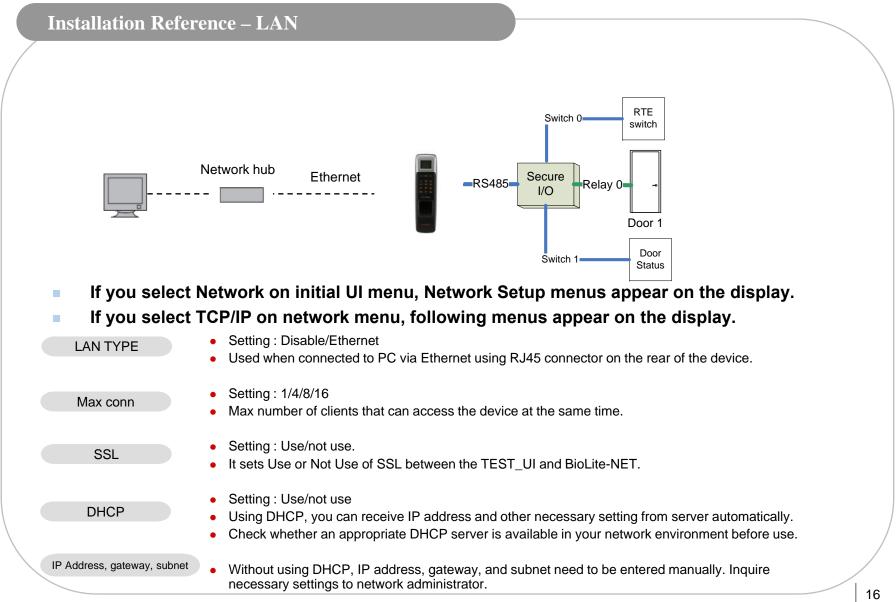
Hook BioLite NET on the wall mount bracket



Installation Reference – Using RFID card









Electrical Specification				
	Min.	Тур.	Max.	Notes
Power	•			•
Voltage (V)	10.8	12	13.2	Use regulated DC power adaptor only
Current (mA)	-		250	
RTC Battery				
Voltage (V)	2.7	3	3.3	Lithium-ion rechargeable battery
Current (mAH)	-		11	
Switch Input				•
V _{IH} (V)	-	TBD	-	
V _{IL} (V)	-	TBD		
Pull-up resistance (Ω)	-	4.7k	-	The input ports are pulled up with 4.7k resistors
TTL/Wiegand Output				
V _{он} (V)	-	5	-	
V _{oL} (V)	-	0.8	-	
Pull-up resistance (Ω)	-	4.7k	-	The outputs ports are open drain type, pulled up with 4.7k resistors internally
Relay	•			•
Switching capacity (A)	-	-	1	30V DC
			0.3	125V AC
Switching power (resistive)	-	-	30W	DC
			37.5VA	AC
Switching voltage (V)	-	-	110 125	DC AC
			120	AU

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How to place a finger

Suprema's fingerprint products show an outstanding recognition performance regardless of the user's fingerprint skin condition or the way of fingerprint positioning. However, following tips are recommended to get more optimal fingerprint recognition performance.

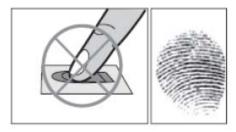
Select a finger to enroll

- It is recommended to use an index finger or a middle finger.
- Thumb, ring or little finger is relatively more difficult to place in a correct position.

How to place a finger on a sensor

- Place a finger such that it completely covers the sensor area with maximum contact.
- Place core part of a fingerprint to the center of a sensor.
 - · People tend to place upper part of a finger.
 - . The core of a fingerprint is a center where the spiral of ridges is dense.
 - Usually core of fingerprint is the opposite side of the lower part of a nail.
 - Place a finger such that the bottom end of a nail is located at the center of a sensor.
- If a finger is placed as in the right picture, only a small area of a finger is captured. So it is recommended to place a finger as shown in the left picture.







Troubleshooting

- Fingerprint can not be read well or it takes too long.
 - Check whether a finger or fingerprint sensor is stained with sweet, water or dust
 - Retry after wiping off finger and fingerprint sensor with dry towel.
 - If a fingerprint is way too dry, blow on the finger and retry.
- Fingerprint is entered but authorization keeps failing.
 - Check whether the user is restricted by door zone or time zone
 - Inquire of administrator whether the enrolled fingerprint has been deleted from the device for some reason
- Authorized but door is not opened.
 - Check whether the time is set as lock time.
 - Check whether an antipass back mode is in use. In antipass back mode, only who entered can exit.
- Device doesn't operate though power is connected.
 - Check whether a device and a bracket is well connected to each other. If not, a tamper switch is activated and the device doesn't work.
- RTC Battery caution.
 - Risk of explosion if battery is replaced by an incorrect type.
 - Dispose of used batteries according to the instructions.



FCC Rules Changes or modifications not expressly approved by the manufacturer Caution responsible for compliance could void the user's authority to operate the equipment. This device complies with part 15 of the FCC Rules. Operation is subject to Warning the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. This equipment has been tested and found to comply with the limit of a Class Information to User B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, user and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guaranteee that interference will not occur in a particular installation; if this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures: 1. Reorient / Relocate the receiving antenna. 2. Increase the separation between the equipment and receiver. 3. Connect the equipment into an outlet on a circuit difference from that to which the receiver is connected. 4. Consult the dealer or an experienced radio/TV technician for help





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